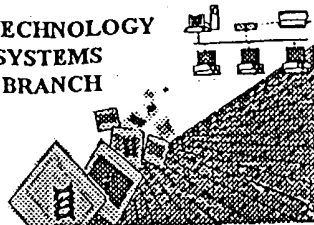


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/896,095A
Source: 1Fwyo
Date Processed by STIC: 12/6/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/896,09SA

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

RAW SEQUENCE LISTING

DATE: 12/06/2004

PATENT APPLICATION: US/09/896,095A

TIME: 14:23:14

Input Set : D:\D0617.70002US09 seq.txt

Output Set: N:\CRF4\12062004\I896095A.raw

3 <110> APPLICANT: Ladner, Robert Charles
 4 Guterman, Sonia Kosow
 5 Roberts, Bruce Lindsay
 6 Markland, William
 7 Arthur, Ley Charles
 8 Rachel, Kent Baribault
 10 <120> TITLE OF INVENTION: DIRECTED EVOLUTION OF NOVEL BINDING PROTEINS
 12 <130> FILE REFERENCE: D0617.70002US09
 14 <140> CURRENT APPLICATION NUMBER: 09/896,095A
 15 <141> CURRENT FILING DATE: 2001-06-29
 17 <150> PRIOR APPLICATION NUMBER: 08/993,776
 18 <151> PRIOR FILING DATE: 1997-12-18
 20 <150> PRIOR APPLICATION NUMBER: 08/415,922
 21 <151> PRIOR FILING DATE: 1995-04-03
 23 <150> PRIOR APPLICATION NUMBER: 08/009,319
 24 <151> PRIOR FILING DATE: 1993-01-26
 26 <150> PRIOR APPLICATION NUMBER: 07/664,989
 27 <151> PRIOR FILING DATE: 1991-03-01
 29 <150> PRIOR APPLICATION NUMBER: 07/487,063
 30 <151> PRIOR FILING DATE: 1990-03-02
 32 <150> PRIOR APPLICATION NUMBER: 07/240,160
 33 <151> PRIOR FILING DATE: 1988-09-02
 E--> 35 <160> NUMBER OF SEQ ID NOS: 261 ? 305? (see below)
 37 <170> SOFTWARE: PatentIn version 3.3

pp 1-8
 Does Not Comply
 Corrected Diskette Needed

ERRORED SEQUENCES

E--> 1444 <210> SEQ ID NO: 84
 E--> 5271 <210> SEQ ID NO: 225
 E--> 6120 <210> SEQ ID NO: 271
 6854 <210> SEQ ID NO: 305
 6855 <211> LENGTH: 5
 6856 <212> TYPE: PRT
 6857 <213> ORGANISM: Artificial sequence
 6859 <220> FEATURE:
 6860 <223> OTHER INFORMATION: synthetic peptide
 6862 <400> SEQUENCE: 305
 6864 Met Ala Ile Ser Pro
 6865 1 5
 E--> 6866 - 1 -
 E--> 6869 - 112 -

Sequence 45 through 83 missing (see p.2)
Sequence 224 missing
Sequence 270 missing
last sequence in submitted file

delete

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/896,095A

DATE: 12/06/2004
TIME: 14:23:16

Input Set : D:\D0617.70002US09 seq.txt
Output Set: N:\CRF4\12062004\I896095A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:125; Line(s) 2250,2256,2267,2273,2284,2290,2301,2307,2318,2324,2335

Seq#:125; Line(s) 2341,2352,2358

Seq#:128; Line(s) 2460,2466,2477,2483,2494,2500,2511,2517,2528,2534

Seq#:204; Line(s) 4255,4261,4272,4278,4289,4295,4306,4312,4323,4329,4340

Seq#:204; Line(s) 4346

Skipped Sequences (NEW RULES):

missing sequences

Sequence(s) __missing. If intentional, please use the following format for each skipped sequence.

<210> sequence id number

<400> sequence id number

000

Seq#:45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68

Seq#:69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,224,270

<210> 89
<211> 24
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic oligonucleotide

? This is not a nucleotide
sequence.

<220>
<221> MISC_FEATURE
<222> (1)..(2)
<223> where n can be any nucleotide

<220>
<221> MISC_FEATURE
<222> (7)..(8)
<223> where n can be any nucleotide

<220>
<221> MISC_FEATURE
<222> (10)..(11)
<223> where n can be any nucleotide

<220>
<221> MISC_FEATURE
<222> (13)..(14)
<223> where n can be any nucleotide

<220>
<221> MISC_FEATURE
<222> (16)..(17)
<223> where n can be any nucleotide

<220>
<221> MISC_FEATURE
<222> (22)..(23)
<223> where n can be any nucleotide

<400> 89

Please correct
this type of error in
subsequent sequences.

09/896,095A 4

<210> 107
<211> 12
<212> DNA
<213> Artificial sequence

<220>
<223> synthetic peptide

another erroneous designation

09/896,095A

5

<210> 125
<211> 76
<212> DNA
<213> Artificial sequence

<220>
<223> synthetic oligonucleotide

<220>
<221> misc_feature
<222> (21)..(21)
<223> where nwhere Xaa can be any naturally occurring amino acid with the
following probabilities:
(.26 T, .18 C, .26 A, and .30 G)

? This is a
nucleotide
sequence.

The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

09/896,095A 6

<210> 187
<211> 7
<212> PRT
<213> Artificial sequence

<220>
<223> synthetic peptide

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> where x is a stop encoded by TAA

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> where x is a stop encoded by TAG

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> where x is a stop encoded by TGA

*Xaa cannot represent a
stop codon. It
can only represent
a single amino acid.*

The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

09/896,095A7

<210> 260
<211> 1302
<212> DNA
<213> M13
<400> 260

invalid <213> response - see item 10 on Error
summary sheet

09/896, 095A 8

<210> 285
<211> 94
<212> DNA
<213> Artificial sequence

<220>
<223> synthetic oligonucleotide

<220>
<221> misc_feature
<222> (18)..(18)
<223> where n has an equal probability of being C or A

being?

VERIFICATION SUMMARY

DATE: 12/06/2004

PATENT APPLICATION: US/09/896,095A

TIME: 14:23:16

Input Set : D:\D0617.70002US09 seq.txt

Output Set: N:\CRF4\12062004\I896095A.raw

L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:16
L:157 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:162 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:167 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:172 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:177 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:182 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:187 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:16
L:252 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:16
L:311 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:16
L:399 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:599 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:799 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:834 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:16
L:913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:917 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:16
L:952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:16
L:996 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:1000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:16
L:1035 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1039 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:16
L:1079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:16
L:1141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:1145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:16
L:1180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:1184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:16
L:1219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:1223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:16
L:1258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0

VERIFICATION SUMMARY

DATE: 12/06/2004

PATENT APPLICATION: US/09/896,095A

TIME: 14:23:16

Input Set : D:\D0617.70002US09 seq.txt

Output Set: N:\CRF4\12062004\I896095A.raw

L:1262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:16
L:1297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:1301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:16
L:1336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:1340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:16
L:1360 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1379 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:1404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:1444 M:216 E: (34) Seq.#s missing, SEQ ID NOS: 45 thru 83
L:1565 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:88 after pos.:0
L:1848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:0
L:2133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:0
L:2233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:0
L:2367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:0
L:2445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:0
L:2543 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:0
L:2677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:0
L:3843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:0
L:3923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:187 after pos.:0
L:4231 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:203 after pos.:0
L:4235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:203 after pos.:16
L:4239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:203 after pos.:32
L:4355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:0
L:4357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:60
L:4410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:0
L:4412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:60
L:4515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:0
L:4519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:16
L:4523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208 after pos.:32
L:4645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:0
L:4647 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:60
L:4649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:120
L:4679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210 after pos.:0
L:4791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:213 after pos.:0
L:4795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:213 after pos.:16
L:4909 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:214 after pos.:0
L:4911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:214 after pos.:60
L:4977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:215 after pos.:0
L:5144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:220 after pos.:128
L:5237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:222 after pos.:128
L:5271 M:214 E: (33) Seq.# missing, SEQ ID NO:224
L:5948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265 after pos.:64
L:6086 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:268 after pos.:128
L:6120 M:214 E: (33) Seq.# missing, SEQ ID NO:270
L:6211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:272 after pos.:64
L:6530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:0
L:6532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:285 after pos.:60
L:6592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:286 after pos.:0
L:6612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:287 after pos.:0

VERIFICATION SUMMARY

DATE: 12/06/2004

PATENT APPLICATION: US/09/896,095A

TIME: 14:23:16

Input Set : D:\D0617.70002US09 seq.txt

Output Set: N:\CRF4\12062004\I896095A.raw

L:6630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:288 after pos.:0
L:6866 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:305
L:6869 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:305
L:35 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (261) Counted (264)